

AMENDMENTS TO THE CLAIMS

Please amend the present application as follows:

Claims

1. (Currently amended) A device having user proximity detection comprising:
a first circuit comprising an antenna wherein user proximity causes a change in resonant frequency of said first circuit, the resonant frequency changing with reference to a frequency at which said antenna is operated; and
a second circuit coupled to said antenna, said second circuit operable to detect a change in an operating characteristic of said antenna due to user proximity, wherein said change in said operating characteristic is detected based on a said change in resonant frequency of said first circuit during operation of said antenna.
- 2-3. (Canceled)
4. (Original) The device of Claim 1, wherein said second circuit is operable to detect a change in impedance of said antenna.
5. (Original) The device of Claim 1, wherein said second circuit comprises a voltmeter.
6. (Original) The device of Claim 1, further comprising a circuit operable to control state of said device, wherein said state is based on said operating characteristic of said antenna.
7. (Original) The device of Claim 1, wherein said device is operated in a power saving mode when said operating characteristic indicates that a user is not proximate said antenna.
8. (Original) The device of Claim 1, wherein said device is operated in a radio frequency transmission mode when said operating characteristic indicates that a user is proximate said antenna.
9. (Currently amended) A device comprising:
a radio transceiver;
an antenna coupled to said radio transceiver wherein user proximity causes a change in resonant frequency of said antenna, the resonant frequency changing with reference to a

frequency at which said antenna is operated; and

a circuit coupled to said antenna, said circuit operable to detect capacitive loading of said antenna based on a said change in resonant frequency of a circuit comprising said antenna during operation of said antenna.

10-11. (Canceled)

12. (Original) The device of Claim 9, wherein said circuit comprises a voltmeter.

13. (Original) The device of Claim 9, further comprising a circuit operable to control a power state of said device, wherein said state is based on said operating characteristic of said antenna.

14. (Currently amended) A wireless data input device comprising:

a radio transceiver;

an antenna coupled to said radio transceiver wherein user proximity causes a change in resonant frequency of said antenna, the resonant frequency changing with reference to a frequency at which said antenna is tuned; and

a first circuit coupled to said antenna, said first circuit operable to detect a said change in resonant frequency of a second circuit comprising said antenna during operation of said antenna, wherein said first circuit is further operable to cause said radio transceiver to be operated in a power operational mode based on said resonant frequency.

15. (Original) The device of Claim 14, wherein said radio transceiver is operated in a low power operational mode when said operating characteristic indicates that a user is not proximate said radio transceiver, based on said resonant frequency.

16. (Original) The device of Claim 14, wherein said radio transceiver is operated in a high power operational mode when said operating characteristic indicates that a user is proximate said radio transceiver, based on said resonant frequency.

17. (Original) The device of Claim 14, wherein said antenna is tuned away from said resonant frequency of said second circuit with no user loading to said antenna and user proximity

causes said resonant frequency of said second circuit to move closer to a frequency at which said antenna is tuned.

18. (Original) The device of Claim 14, wherein said antenna is tuned near said resonant frequency of said second circuit with no user loading to said antenna and user proximity causes said resonant frequency to move farther from a frequency at which said antenna is tuned.